

ORDER NO. MD0512489C1
A6

Service Manual

Speaker System
SB-PM53P
Colour
(M)... Wood Type



SPECIFICATIONS

	Specification
Type	2 way, 2 speaker system
Speaker(s)	
Woofer	10 cm (4") cone type (6)
Tweeter	6 cm (2-3/8") cone type (6)
Impedance	6
Input power (IEC)	
High	90 W (Max)
Low	90 W (Max)
Output sound pressure	80 dB/W (1.0 m)
Crossover over frequency	2.2 kHz
Frequency range	45 Hz to 35 kHz (-16 dB) 50 Hz to 31 kHz (-10 dB)
Dimensions (W x H x D)	144 x 249 x 200 mm (5-11/16" x 9-13/16" x 7-7/8")
Mass	1.9 kg (4.2 lb.)

Notes :

1. Specifications are subject to change without notice.

Mass and dimensions are approximate.

2. Total harmonic distortion is measured by the digital spectrum analyzer.

3. The labels "HIGH" and "LOW" on the rear or the speakers refer to High frequency and Low frequency.

■ System : SC-PM53P-S	Music Center : SA-PM53P-S
	Front Speaker : SB-PM53P-M
■ System : SC-PM53PC-S	Music Center : SA-PM53PC-S
	Front Speaker : SB-PM53P-M
■ System : SC-PM533P-S	Music Center : SA-PM533P-S
	Front Speaker : SB-PM53P-M

System	SC-PM53P/PC-S	SC-PM533P-S
Music Centre System	SA-PM53P/PC-S	SA-PM533P-S
Front Speaker	SB-PM53P-M	SB-PM53P-M

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WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

1. Assembling and Disassembling

“ATTENTION SERVICER”

Some chassis components may have sharp edges. Be careful when disassembling and servicing.

1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures.
Special reassembly procedures are described only when required.
3. Select items from the following index when checks or replacement are required.
4. Refer to the Parts No. on the page of “Parts Location and Replacement Parts List” (Section 5), if necessary.

Caution:

Original screws should be used.

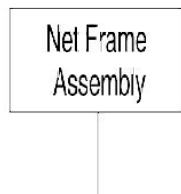
Below is the list of disassembly sections

- **Disassembly of Net Frame Assembly**
- **Disassembly of Front Panel**
- **Disassembly of Tweeter**
- **Disassembly of Speaker**
- **Disassembly of Speaker Cabinet Assembly**

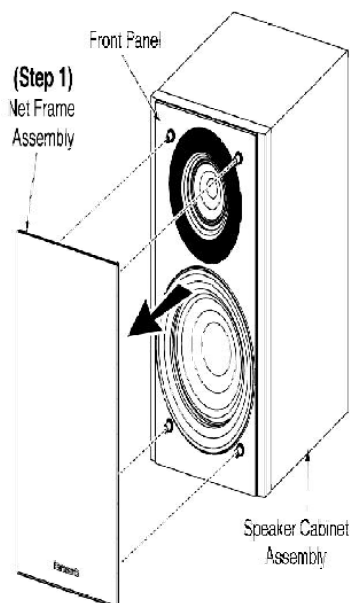
1.1. Disassembly flow chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.

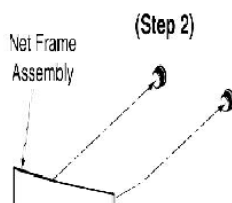
To assemble the unit, reverse the steps shown in the chart as below.



1.2. Disassembly of Net Frame Assembly



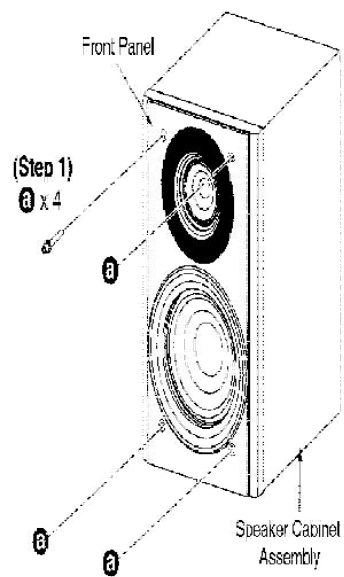
Step 1: Remove Net Frame Assembly as arrow shown .



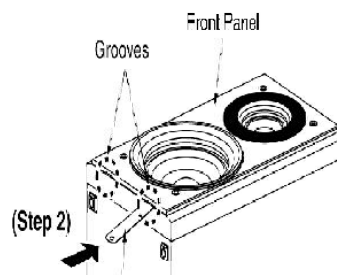
Step 2: Remove Gray Net Holder from Net Frame Assembly.

1.3. Disassembly of Front Panel

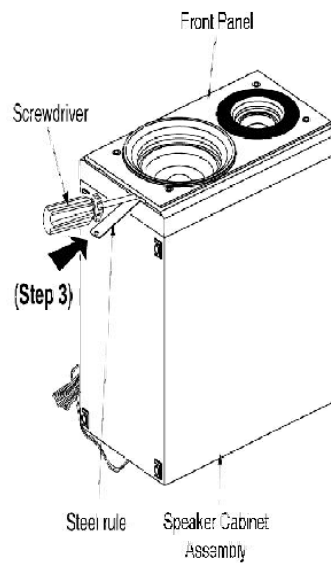
Follow (step 1) in item 1.2.



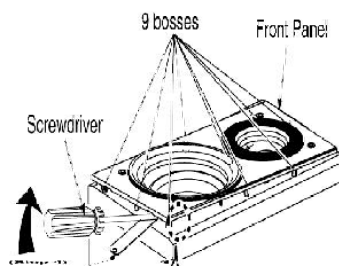
Step 1: Remove 4 screws from Front Panel.



Step 2: Insert a small Steel rule into the grooves of the Front Panel and lift up a little bit to make a gap allowance between the Front Panel and Speaker Cabinet Assembly as arrow shown.



Step 3: Insert a flathead screwdriver into the groove as shown. Ensure that the screwdriver is above the small Steel rule.



Step 4: At the boss area, push up as arrow shown to open the bosses.

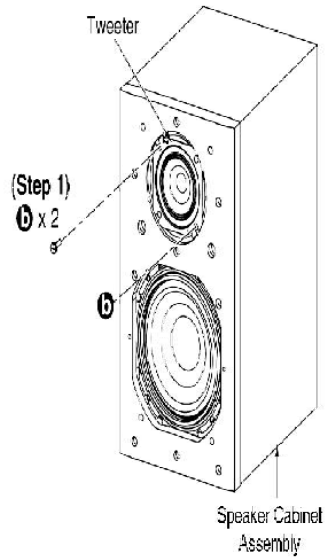
Caution:

Do not exert strong force as it may damage Front Panel.

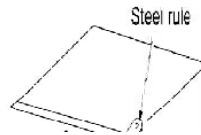
1.4. Disassembly of Tweeter

Follow (step 1) in item 1.2.

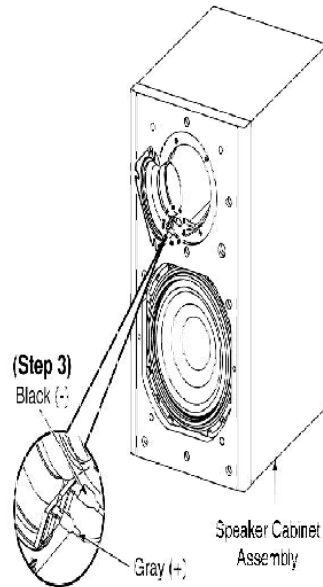
Follow (step 1) to (step 4) in item 1.3.



Step 1: Remove 2 screws from Tweeter.



Step 2: Remove Tweeter by inserting the steel rule in between the Tweeter and Speaker Cabinet Assembly as arrow shown.

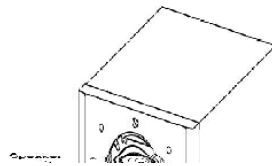


Step 3: Remove the Tweeter by detaching the (+) Gray and (-) Black wires.

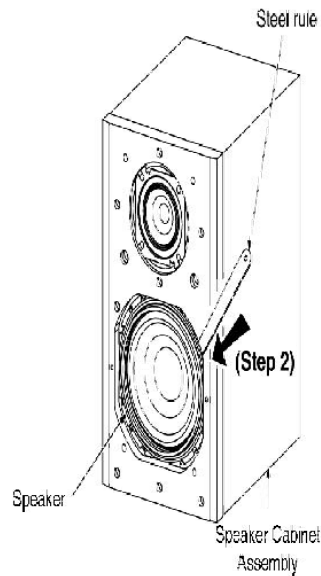
1.5. Disassembly of Speaker

Follow (step 1) in item 1.2.

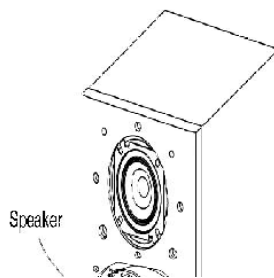
Follow (step 1) to (step 4) in item 1.3.



Step 1: Remove 4 screws from Speaker.



Step 2: Remove Speaker by inserting the steel rule in between the Speaker and Speaker Cabinet Assembly as arrow shown.



Step 3: Remove the Speaker by detaching the (+) Red and (-) Black wires.

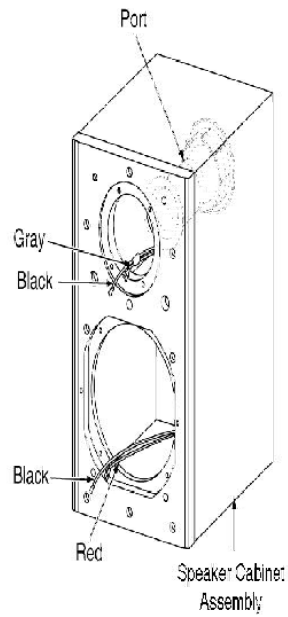
1.6. Disassembly of Speaker Cabinet Assembly

Follow (step 1) in item 1.2.

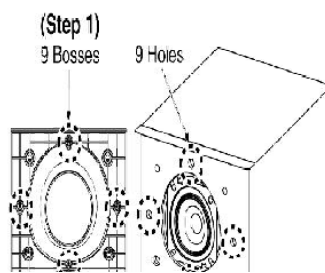
Follow (step 1) to (step 4) in item 1.3.

Follow (step 1) to (step 3) in item 1.4.

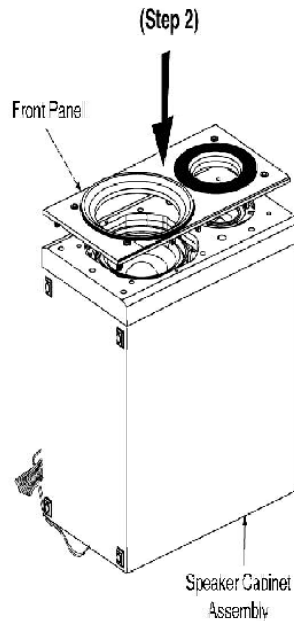
Follow (step 1) to (step 3) in item 1.5.



1.7. Assembly of Speaker Unit



Step 1: Scrape off using the scribe and clean up the remaining glue at the 9 bosses and 9 holes of the Front Panel and Speaker Cabinet Assembly and replace with new glue.



Step 2: Fix the Front Panel firmly back to the Speaker Cabinet Assembly.

2. Connection of the Speaker Cables

- Be sure to connect speaker cables before connecting the AC power supply cord.
- The load impedance of any speaker used with this unit must be 6 .
- Be sure to connect the cable from the right speaker to the right terminal and the cable from the left speaker to the left terminal.

1. Twist and pull off the vinyl tip of the speaker cords. If the speaker cords do not have vinyl tips, connect them directly to the terminals. Make sure the bare ends of the wires are not unravelled.

2. Insert the wire to the rear panel of the unit and close the lever.

Notes :

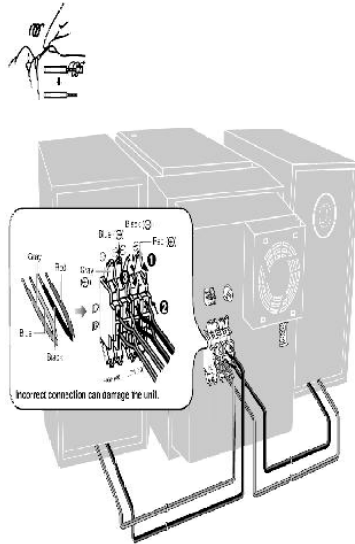
- To prevent damage to circuitry, never short-circuit positive (+) and negative (-) speaker wires.
- Be sure to connect only positive (red/gray) wires to positive (+) terminals and negative (black/blue) wires to negative (-) terminals.

Placement

Speakers are designed identically so that no left or right channel orientation is necessary.



Connection



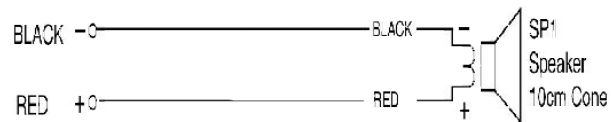
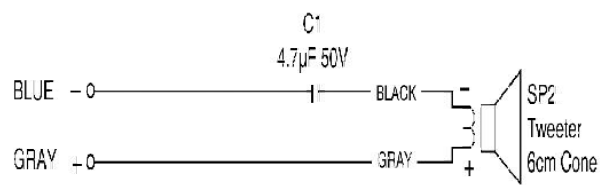
Use only the supplied speakers

The combination of the main unit and speakers provide the best sound. Using other speakers can damage the unit and sound quality will be negatively affected.

Note

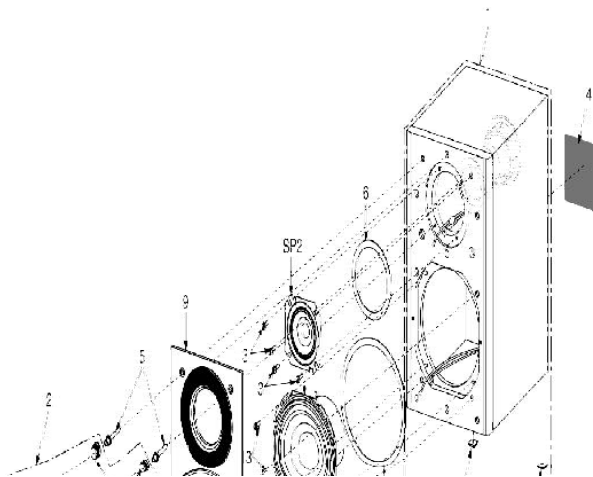
- **Keep your speakers at least 10 mm (13/32") away from the system for proper ventilation.**
- **These speakers do not have magnetic shielding. Do not place them near televisions, personal computers or other devices easily influenced by magnetism.**
- **To avoid damage to the speakers, do not touch the speaker cones if you have taken the nets off.**

3. Connection of the Wiring Diagram

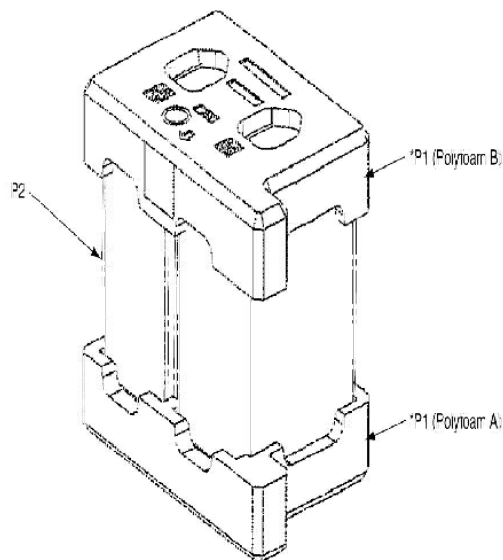
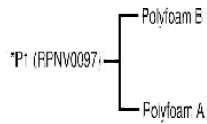


4. Cabinet Parts Location

4.1. Exploded view



4.2. Packaging



5. Replacement Parts List

Notes :

- Important safety notice :

When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.

- [M] markings in the Remarks columns indicates parts supplied by PAVCSG.

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
<u>1</u>	RFKHBPM53P-M	SPEAKER CAB.ASS'Y	[M]
<u>1-1</u>	RKA0072-KJ	LEG CUSHION	[M]
<u>2</u>	RYBV0041	NET FRAME ASS'Y	[M]
<u>2-1</u>	RMG0520-H	NET CATCHER	[M]
<u>3</u>	XTB4+16AFJK	SCREW	[M]
<u>4</u>	RGNV0177-K	SPEC LABEL	[M]
<u>5</u>	RHDV40004	SCREW	[M]
<u>6</u>	RMQ0621	EVA PACKING (TWEETER)	[M]
<u>7</u>	RMQV0054	EVA PACKING (WOOFER)	[M]
<u>9</u>	RGPV0083-S	FRONT PANEL	[M]
		CAPACITOR	
C1	ECA1HAY4R7S	4.7uf 50V	[M]
		PACKING MATERIALS	
<u>P1</u>	RPNV0097	POLYFOAM	[M]
<u>P2</u>	RPF0420	MIRAMAT BAG	[M]
		SPEAKERS	
<u>SP1</u>	EAS10PL624A	SPEAKER	[M]
<u>SP2</u>	EAS6PH124C	TWEETER UNIT	[M]

FLE0512W/S